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Immunohistochemical demonstration of thyrotropin (TSH)-receptor in normal and diseased human thyroid tissues using monoclonal antibody against recombinant human TSH-receptor protein. Mizukami Y et al. J Clin Endocrinol Metab. (1994)

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1. Human TSH receptor ligands as pharmacological probes with potential clinical application.
Neumann S, Raaka BM, Gershengorn MC.
Expert Rev Endocrinol Metab. 2009 Nov 1;4(6):669.
PMID: 20161662 [PubMed]
2. Assays for thyroid-stimulating hormone receptor antibodies employing different ligands and ligand partners may have similar sensitivity and specificity but are not interchangeable.
Pedersen IB, Handberg A, Knudsen N, Heickendorff L, Laurberg P.
Thyroid. 2010 Feb;20(2):127-33.
PMID: 20161820 [PubMed - in process]
3. Reproducibility of Elecsys(R) Anti-TSHR Test Results in a Lot-to-Lot Comparison.
Hermesen D, Eckstein A, Schinner S, Willenberg HS, Thiel A, Scherbaum WA, Schott M.
Horm Metab Res. 2010 Apr;42(4):295-297. Epub 2010 Feb 3.
PMID: 20131202 [PubMed - as supplied by publisher]
4. [New assays of TSH-receptor antibodies: analytical and clinical performances in the diagnosis of Graves' disease]
Massart C, Sapin R, Gibassier J, Agin A, d'Herbomez M.
Ann Biol Clin (Paris). 2009 Nov-Dec;67(6):661-7. French.
PMID: 19939769 [PubMed - indexed for MEDLINE]
5. Rituximab in the treatment of thyroid eye disease: science fiction?
Salvi M, Vannucchi G, Campi I, Beck-Peccoz P.
Orbit. 2009;28(4):251-5.
PMID: 19839884 [PubMed - indexed for MEDLINE]
6. TSH receptor antibody (TRAb) assays based on the human monoclonal autoantibody M22 are more sensitive than bovine TSH based assays.
Zöphel K, Roggenbuck D, von Landenberg P, Wunderlich G, Grüning T, Kotzerke J, Lackner KJ, Rees Smith B.
Horm Metab Res. 2010 Jan;42(1):65-9. Epub 2009 Oct 14.
PMID: 19830651 [PubMed - indexed for MEDLINE]
7. TSH receptor - autoantibody interactions.
Rees Smith B, Sanders J, Evans M, Tagami T, Furmaniak J.
Horm Metab Res. 2009 Jun;41(6):448-55.
PMID: 19530271 [PubMed - indexed for MEDLINE]
8. Autoimmune thyroid disease: unlocking a complex puzzle.
Brown RS.
Curr Opin Pediatr. 2009 Aug;21(4):523-8. Review.
PMID: 19474733 [PubMed - indexed for MEDLINE]

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9. [M22 based \(manual\) ELISA for TSH-receptor antibody \(TRAb\) measurement is more sensitive than 2nd generation TRAb assays.](#)
 Zöphel K, Wunderlich G, Kotzerke J, von Landenberg P, Roggenbuck D.
 Clin Chim Acta. 2009 May;403(1-2):266. Epub 2009 Jan 31. No abstract available.
 PMID: 19361467 [PubMed - indexed for MEDLINE]
10. [Thyroid stimulating autoantibody M22 mimics TSH binding to the TSH receptor leucine rich domain: a comparative structural study of protein-protein interactions.](#)
 Núñez Miguel R, Sanders J, Chirgadze DY, Furmaniak J, Rees Smith B.
 J Mol Endocrinol. 2009 May;42(5):381-95. Epub 2009 Feb 16.
 PMID: 19221175 [PubMed - indexed for MEDLINE]
11. [Clinical value of the first automated TSH receptor autoantibody assay for the diagnosis of Graves' disease \(GD\): an international multicentre trial.](#)
 Schott M, Hermsen D, Broecker-Preuss M, Casati M, Mas JC, Eckstein A, Gassner D, Golla R, Graeber C, van Helden J, Inomata K, Jarausch J, Kratzsch J, Miyazaki N, Moreno MA, Murakami T, Roth HJ, Stock W, Noh JY, Scherbaum WA, Mann K.
 Clin Endocrinol (Oxf). 2009 Oct;71(4):566-73. Epub 2008 Dec 17.
 PMID: 19170704 [PubMed - indexed for MEDLINE]
12. [Technical evaluation of the first fully automated assay for the detection of TSH receptor autoantibodies.](#)
 Hermsen D, Broecker-Preuss M, Casati M, Mas JC, Eckstein A, Gassner D, van Helden J, Inomata K, Jarausch J, Kratzsch J, Mann K, Miyazaki N, Navarro Moreno MA, Murakami T, Roth HJ, Noh JY, Scherbaum WA, Schott M.
 Clin Chim Acta. 2009 Mar;401(1-2):84-9. Epub 2008 Dec 3.
 PMID: 19091299 [PubMed - indexed for MEDLINE]
13. [Evidence that shed thyrotropin receptor A subunits drive affinity maturation of autoantibodies causing Graves' disease.](#)
 Mizutori Y, Chen CR, Latrofa F, McLachlan SM, Rapoport B.
 J Clin Endocrinol Metab. 2009 Mar;94(3):927-35. Epub 2008 Dec 9.
 PMID: 19066298 [PubMed - indexed for MEDLINE]
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14. [TSH receptor blocking antibodies.](#)
 Smith BR, Furmaniak J, Sanders J.
 Thyroid. 2008 Nov;18(11):1239. No abstract available.
 PMID: 19031548 [PubMed - indexed for MEDLINE]
15. [Intermethod variability in TSH-receptor antibody measurement: implication for the diagnosis of Graves disease and for the follow-up of Graves ophthalmopathy.](#)
 Massart C, Sapin R, Gibassier J, Agin A, d'Herbomez M.
 Clin Chem. 2009 Jan;55(1):183-6. Epub 2008 Nov 21.
 PMID: 19028818 [PubMed - indexed for MEDLINE]
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16. [The effects of nonionic polymers on thyroid stimulation and TSH receptor binding by the human monoclonal TSH receptor autoantibody M22.](#)
 Ochi Y, Hamazu M, Kajita Y, Hachiya T, Miyata T, Barrett C, Smith BR.
 Thyroid. 2009 Jan;19(1):47-52.
 PMID: 19976151 [PubMed - indexed for MEDLINE]
17. [On specificity of 2nd generation TSH receptor autoantibody measurements.](#)
 Zöphel K, Grüning T, Roggenbuck D, Wunderlich G, Kotzerke J.
 Clin Lab. 2008;54(7-8):243-9.
 PMID: 18942492 [PubMed - indexed for MEDLINE]
18. [Characterization of thyrotropin receptor antibody-induced signaling cascades.](#)

Morshed SA, Latif R, Davies TF.

Endocrinology. 2009 Jan;150(1):519-29. Epub 2008 Aug 21.

PMID: 18719020 [PubMed - indexed for MEDLINE]

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19. [A human monoclonal autoantibody to the thyrotropin receptor with thyroid-stimulating blocking activity.](#)

Sanders J, Evans M, Betterle C, Sanders P, Bhardwaja A, Young S, Roberts E, Wilmot J, Richards T, Kiddie A, Small K, Platt H, Summerhayes S, Harris R, Reeve M, Coco G, Zanchetta R, Chen S, Furmaniak J, Smith BR.

Thyroid. 2008 Jul;18(7):735-46.

PMID: 18591002 [PubMed - indexed for MEDLINE]

20. [Whither TSH receptor blocking antibodies in the treatment of Graves' disease?](#)

Rapoport B, McLachlan SM.

Thyroid. 2008 Jul;18(7):695-6. No abstract available.

PMID: 18630996 [PubMed - indexed for MEDLINE]

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1. [TSH receptor - autoantibody interactions.](#)
Rees Smith B, Sanders J, Evans M, Tagami T, Furmaniak J.
Horm Metab Res. 2009 Jun;41(6):448-55.
PMID: 19530271 [PubMed - indexed for MEDLINE]
2. [Clinical value of the first automated TSH receptor autoantibody assay for the diagnosis of Graves' disease \(GD\): an international multicentre trial.](#)
Schott M, Hermesen D, Broecker-Preuss M, Casati M, Mas JC, Eckstein A, Gassner D, Golla R, Graeber C, van Helden J, Inomata K, Jarausch J, Kratzsch J, Miyazaki N, Moreno MA, Murakami T, Roth HJ, Stock W, Noh JY, Scherbaum WA, Mann K.
Clin Endocrinol (Oxf). 2009 Oct;71(4):566-73. Epub 2008 Dec 17.
PMID: 19170704 [PubMed - indexed for MEDLINE]
3. [Comparison of M22-based ELISA and human-TSH-receptor-based luminescence assay for the measurement of thyrotropin receptor antibodies in patients with thyroid diseases.](#)
Liu C, Hermesen D, Domberg J, Graeber C, Hautzel H, Duan Y, Xu KF, Liu CP, Mao XD, Cupisti K, Scherbaum WA, Schott M.
Horm Metab Res. 2008 Jul;40(7):479-83. Epub 2008 May 26.
PMID: 18504673 [PubMed - indexed for MEDLINE]
4. [TSH receptor antibodies.](#)
Smith BR, Sanders J, Furmaniak J.
Thyroid. 2007 Oct;17(10):923-38. Review.
PMID: 17900238 [PubMed - indexed for MEDLINE]
5. [Molecular interactions between the TSH receptor and a Thyroid-stimulating monoclonal autoantibody.](#)
Sanders J, Miguel RN, Bolton J, Bhardwaja A, Sanders P, Nakatake N, Evans M, Furmaniak J, Smith BR.
Thyroid. 2007 Aug;17(8):699-706.
PMID: 17725428 [PubMed - indexed for MEDLINE]
6. [Clinical evaluation of 3rd generation assay for thyrotropin receptor antibodies: the M22-biotin-based ELISA initiated by Smith.](#)
Kamijo K, Ishikawa K, Tanaka M.
Endocr J. 2005 Oct;52(5):525-9.
PMID: 16284428 [PubMed - indexed for MEDLINE]
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7. [A mouse monoclonal antibody to the TSHR.](#)
Stankowiak-Kulpa H, Sanders J, Depraetere H, Jeffreys J, Evans M, Richards T, Furmaniak J, Smith BR.
Arch Immunol Ther Exp (Warsz). 2005 Jul-Aug;53(4):345-51.
PMID: 16088319 [PubMed - indexed for MEDLINE]
8. [In vitro assay of thyroid disruptors affecting TSH-stimulated adenylate cyclase activity.](#)
Santini F, Vitti P, Ceccarini G, Mammoli C, Rosellini V, Pelosini C, Marsili A, Tonacchera M, Agretti P, Santoni T, Chiovato L, Pinchera A.
J Endocrinol Invest. 2003 Oct;26(10):950-5.
PMID: 14759065 [PubMed - indexed for MEDLINE]
9. [Human monoclonal thyroid stimulating autoantibody.](#)
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- Sanders J, Evans M, Premawardhana LD, Depraetere H, Jeffreys J, Richards T, Furmaniak J, Rees Smith B.
Lancet. 2003 Jul 12;362(9378):126-8.
PMID: 12867115 [PubMed - indexed for MEDLINE]
10. Thyroid autoantibodies.
Smith BR.
Scand J Clin Lab Invest Suppl. 2001;235:45-52. Review.
PMID: 11712692 [PubMed - indexed for MEDLINE]
 11. Identification of the peptides that inhibit the function of human monoclonal thyroid-stimulating antibodies from phage-displayed peptide library.
Byun CH, Park JY, Akamizu T, Chae CB.
J Clin Endocrinol Metab. 2001 Jul;86(7):3311-8.
PMID: 11443206 [PubMed - indexed for MEDLINE]
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 12. The interaction of TSH receptor autoantibodies with 125I-labelled TSH receptor.
Sanders J, Oda Y, Roberts S, Kiddie A, Richards T, Bolton J, McGrath V, Walters S, Jaskólski D, Furmaniak J, Smith BR.
J Clin Endocrinol Metab. 1999 Oct;84(10):3797-802.
PMID: 10523032 [PubMed - indexed for MEDLINE]
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 13. Binding characteristics of antibodies to the TSH receptor.
Oda Y, Sanders J, Roberts S, Maruyama M, Kato R, Perez M, Petersen VB, Wedlock N, Furmaniak J, Rees Smith B.
J Mol Endocrinol. 1998 Apr;20(2):233-44.
PMID: 9584838 [PubMed - indexed for MEDLINE]
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 14. Identification of the peptides that inhibit the stimulation of thyrotropin receptor by Graves' immunoglobulin G from peptide libraries.
Park JY, Kim IJ, Lee MH, Seo JK, Suh PG, Cho BY, Ryu SH, Chae CB.
Endocrinology. 1997 Feb;138(2):617-26.
PMID: 9002895 [PubMed - indexed for MEDLINE]
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 15. Molecular analysis of stimulatory anti-thyrotropin receptor antibodies (TSAbs) involved in Graves' disease. Isolation and reconstruction of antibody genes, and production of monoclonal TSAbs.
Akamizu T, Matsuda F, Okuda J, Li H, Kanda H, Watanabe T, Honjo T, Mori T.
J Immunol. 1996 Oct 1;157(7):3148-52.
PMID: 8816426 [PubMed - indexed for MEDLINE]
 16. Thyrotropin (TSH) receptor antibodies (TSHrAb) can inhibit TSH-mediated cyclic adenosine 3',5'-monophosphate production in thyroid cells by either blocking TSH binding or affecting a step subsequent to TSH binding.
Dallas JS, Cunningham SJ, Patibandla SA, Seetharamaiah GS, Morris JC, Tahara K, Kohn LD, Prabhakar BS.
Endocrinology. 1996 Aug;137(8):3329-39.
PMID: 8754759 [PubMed - indexed for MEDLINE]
 17. Patient with monoclonal gammopathy, thyrotoxicosis, pretibial myxedema and thyroid-associated ophthalmopathy: demonstration of direct binding of autoantibodies to the thyrotropin receptor.
Tonacchera M, Costagliola S, Cetani F, Ducobu J, Stordeur P, Vassart G, Ludgate M.
Eur J Endocrinol. 1996 Jan;134(1):97-103.
PMID: 8590966 [PubMed - indexed for MEDLINE]
 18. Identification of the thyroid Na⁺/I⁻ cotransporter as a potential autoantigen in thyroid autoimmune disease.
Raspé E, Costagliola S, Ruf J, Mariotti S, Dumont JE, Ludgate M.

Eur J Endocrinol. 1995 Apr;132(4):399-405.

PMID: 7711875 [PubMed - indexed for MEDLINE]

19. Preparation and characterization of monoclonal antithyrotropin receptor antibodies obtained from peripheral lymphocytes of hypothyroid patients with primary myxedema.

Okuda J, Akamizu T, Sugawa H, Matsuda F, Hua L, Mori T.

J Clin Endocrinol Metab. 1994 Dec;79(6):1600-4.

PMID: 7989462 [PubMed - indexed for MEDLINE]

20. Characterization of monoclonal antibodies to the human thyrotropin receptor.

Marion S, Ropars A, Ludgate M, Braun JM, Charreire J.

Endocrinology. 1992 Feb;130(2):967-75.

PMID: 1733738 [PubMed - indexed for MEDLINE]

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Santini F, Vitti P, Ceccarini G, Mammoli C, Rosellini V, Pelosini C, Marsili A, Tonacchera M, Agretti P, Santoni T, Chiovato L, Pinchera A.
J Endocrinol Invest. 2003 Oct;26(10):950-5.
PMID: 14759065 [PubMed - indexed for MEDLINE]
2. [Identification of the peptides that inhibit the function of human monoclonal thyroid-stimulating antibodies from phage-displayed peptide library.](#)
Byun CH, Park JY, Akamizu T, Chae CB.
J Clin Endocrinol Metab. 2001 Jul;86(7):3311-8.
PMID: 11443206 [PubMed - indexed for MEDLINE]
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3. [Identification of the peptides that inhibit the stimulation of thyrotropin receptor by Graves' immunoglobulin G from peptide libraries.](#)
Park JY, Kim IJ, Lee MH, Seo JK, Suh PG, Cho BY, Ryu SH, Chae CB.
Endocrinology. 1997 Feb;138(2):617-26.
PMID: 9002995 [PubMed - indexed for MEDLINE]
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4. [Thyrotropin \(TSH\) receptor antibodies \(TSHrAb\) can inhibit TSH-mediated cyclic adenosine 3',5':monophosphate production in thyroid cells by either blocking TSH binding or affecting a step subsequent to TSH binding.](#)
Dallas JS, Cunningham SJ, Patibandla SA, Seetharamaiah GS, Morris JC, Tahara K, Kohn LD, Prabhakar BS.
Endocrinology. 1996 Aug;137(8):3329-39.
PMID: 8754759 [PubMed - indexed for MEDLINE]
5. [Patient with monoclonal gammopathy, thyrotoxicosis, pretibial myxedema and thyroid-associated ophthalmopathy; demonstration of direct binding of autoantibodies to the thyrotropin receptor.](#)
Tonacchera M, Costagliola S, Cetani F, Ducobu J, Stordeur P, Vassart G, Ludgate M.
Eur J Endocrinol. 1996 Jan;134(1):97-103.
PMID: 8590966 [PubMed - indexed for MEDLINE]
6. [Preparation and characterization of monoclonal antithyrotropin receptor antibodies obtained from peripheral lymphocytes of hypothyroid patients with primary myxedema.](#)
Okuda J, Akamizu T, Sugawa H, Matsuda F, Hua L, Mori T.
J Clin Endocrinol Metab. 1994 Dec;79(6):1600-4.
PMID: 7989462 [PubMed - indexed for MEDLINE]
7. [Characterization of monoclonal antibodies to the human thyrotropin receptor.](#)
Marion S, Ropars A, Ludgate M, Braun JM, Charreire J.
Endocrinology. 1992 Feb;130(2):967-75.
PMID: 1733738 [PubMed - indexed for MEDLINE]
8. [Studies of possible antiidiotypic control mechanisms in Graves' disease.](#)
Moynier M, Montano J, Williams RC Jr, Pathak D, DeGroot LC, Hill BL, Marshall NJ.
J Lab Clin Med. 1988 Jul;112(1):99-108.
PMID: 2839588 [PubMed - indexed for MEDLINE]

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9. [\[Studies on monoclonal antibodies to TSH receptors--heterogeneity and pathophysiological significance of antibodies to TSH receptor\]](#)
Yoshida T.
Nippon Naibunpi Gakkai Zasshi. 1986 Dec 20;62(12):1384-99. Japanese.
PMID: 3817231 [PubMed - indexed for MEDLINE]
10. [Production, isolation, and characterization of rabbit anti-idiotypic antibodies directed against human antithyrotrophin receptor antibodies.](#)
Baker JR Jr, Lukes YG, Burman KD.
J Clin Invest. 1984 Aug;74(2):488-95.
PMID: 6086714 [PubMed - indexed for MEDLINE]
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11. [Gangliosides, the thyrotropin receptor, and autoimmune thyroid disease.](#)
Lacetti P, Tombaccini D, Aloj S, Grollman EF, Kohn LD.
Adv Exp Med Biol. 1984;174:355-67.
PMID: 6331133 [PubMed - indexed for MEDLINE]
12. [Monoclonal antibodies to the thyrotropin receptor: the identification of blocking and stimulating antibodies.](#)
Valente WA, Yavin Z, Yavin E, Grollman EF, Schneider M, Rotella CM, Zonefrati R, Toccafondi RS, Kohn LD.
J Endocrinol Invest. 1982 Sep-Oct;5(5):293-301.
PMID: 6296219 [PubMed - indexed for MEDLINE]

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OR "human"[All Fields]) AND ("immunoglobulins"[MeSH Terms]  
OR "immunoglobulins"[All Fields] OR "antibody"[All Fields]  
OR "antibodies"[MeSH Terms] OR "antibodies"[All Fields]))  
AND "TSH receptor"[All Fields]
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"immunoglobulins"[MeSH Terms] OR "immunoglobulins"[All Fields]
antibody OR "antibody"[All Fields] OR "antibodies"[MeSH Terms] OR
"antibodies"[All Fields]
human "humans"[MeSH Terms] OR "humans"[All Fields] OR "human"[All
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OR "human"[All Fields]) AND ("immunoglobulins"[MeSH Terms]  
OR "immunoglobulins"[All Fields] OR "antibody"[All Fields]  
OR "antibodies"[MeSH Terms] OR "antibodies"[All Fields]))  
AND "TSH receptor"[All Fields] AND (inhibit[All Fields] AND  
("pharmacokinetics"[Subheading] OR "pharmacokinetics"[All  
Fields] OR "binding"[All Fields] OR "pharmacokinetics"[MeSH  
Terms] OR "binding"[All Fields])) AND (cAMP[All Fields] OR  
adenylate[All Fields])
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Translations:

antibody "immunoglobulins"[MeSH Terms] OR "immunoglobulins"[All Fields]
OR "antibody"[All Fields] OR "antibodies"[MeSH Terms] OR
"antibodies"[All Fields]
human "humans"[MeSH Terms] OR "humans"[All Fields] OR "human"[All
Fields]
binding "pharmacokinetics"[Subheading] OR "pharmacokinetics"[All Fields]
OR "binding"[All Fields] OR "pharmacokinetics"[MeSH Terms] OR
"binding"[All Fields]

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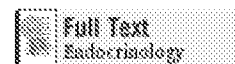
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Endocrinology. 1992 Feb;130(2):967-75.

Characterization of monoclonal antibodies to the human thyrotropin receptor.

Marion S, Ropars A, Ludgate M, Braun JM, Charreire J.

INSERM U.283, Hôpital Cochin, Paris, France.

We have produced four monoclonal antibodies (mAbs), 34A, 49G, 11E7, and 12E3, which bind the human TSH receptor (hTSH-R) when expressed on a human thyroid cell line (GEJ), freshly dissociated human and murine thyroid cells, or Chinese hamster ovary cells stably transfected with the hTSH-R gene. These mAbs were obtained after immunization of DBA/1 mice with affinity-purified TSH-binding sites from GEJ cells. Biochemical studies, including sodium dodecyl sulfate-polyacrylamide-gel electrophoresis, Western blot, and immunoprecipitation of solubilized GEJ cell membranes or human thyroid cells showed that most of the mAbs recognized two bands: one located at 46-48 kilodaltons and the other at 86-88 kilodaltons. Inhibition of [125I] hTSH binding to solubilized porcine membranes (TSH-receptor auto-antikörper assay) or Chinese hamster ovary cell membranes previously transfected with hTSH-R gene showed that mAb 34A recognizes the hTSH-binding site of both receptors. In contrast, mAbs 49G, 11E7, and 12E3 recognize a structure located near the hTSH-binding site. Lastly, the ability of these mAbs to stimulate murine thyroid function was investigated by measuring cAMP production and iodide accumulation. The 34A mAb, which fully competes with [125I]TSH for binding to hTSH-R, was able to induce both functions. Conversely, the 12E3 mAb, which was the least potent inhibitor of [125I]TSH binding to hTSH-R-transfected cells had no effect. A relationship was, therefore, established between the capacity of mAb to hTSH-R to inhibit [125I]hTSH binding and their ability to induce thyroid functions.

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